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APPLICATION NO.	FILING D	ATÉ	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/829,339 04/09/2001		001	David Y. Chan	0267-1430 (41912.018500)	1353		
7	590	02/11/2004		EXAMI	NER		
GREENBERG TRAURIG, LLP			KITOV,	ZEEV			
885 Third Ave	nue 21st F	loor					
New York, NY 10022				ART UNIT	PAPER NUMBER		
•				2836	2836		

DATE MAILED: 02/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No. Applicant(s)					
	09/829,339	CHAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Zeev Kitov	2836 AV				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailling date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office tater than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a repty be to within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	imely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 No.	ovember 2003.					
2a) This action is FINAL . 2b) ▼ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1 - 3, 7, 21 - 33</u> is/are pending in the a 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) <u>1 - 3, 7, 21 - 28, 30 - 33</u> is/are allowed 6) ⊠ Claim(s) <u>29</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 19 November 2001 is/an Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Se on is required if the drawing(s) is ol	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicatity documents have been receiv (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	A 🔲 1-4	(PTO 442)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal I	Patent Application (PTO-152)				

Application/Control Number: 09/829,339

Art Unit: 2836

DETAILED ACTION

Examiner acknowledges a submission of the RCE request, an amendment and remarks filed on November 24, 2003. Claims 4 – 6 and 8 - 20 are deleted; Claims 1 – 3, and 7 are amended. New Claims 21 – 33 are added. Amendment have overcome previously presented rejections under 102 (b) and 103(a). However, addition of new claims necessitated the new search and new ground(s) of rejection presented in this Office action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over LM1851 Data Sheet from National Semiconductor Corp. in a view of Torosian (US 3,731,154). LM1851 discloses following elements of Claim 29: a ground fault circuit interrupter (element LM1851 in Fig. 2) and a first surge protector component connected across a set of power inputs (element MOV in Fig. 2), a bridge circuit with plurality of diodes (not marked in Fig. 2), a GFCI processor connected between phase and neutral line of the circuit (element 1851 in Fig. 2). However, it does not disclose a second surge protector connected in parallel with the first one. Torosian discloses both the first (elements 5, 6

and 7 in Fig. 1) and the second surge protectors (elements 9 and 10 in Fig. 1), wherein the second surge protector includes a zener diode in series with a resistor (col. 2, lines 5–30). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the LM 1851 solution by adding the second surge protector including the zener diode in series with the resistor, according to Torosian, because as Torosian states (col. 3, line51-col. 4, line 44 and col. 4, lines 57 – 58), this way the spark will start discharging through the resistor-zener circuit first and through the gaps, 6 and 7 later, thus eliminating a possible failure of the gap 7 breakdown.

Allowable Subject Matter

An amended independent Claim 1 discloses a ground fault circuit interrupter, which inter alia, includes following limitations: a low-pass filter circuit having a capacitor coupled in series with the solenoid coil of the GFCI, the low-pass filter connected across the power inputs of the GFCI to pass low frequency voltage signal to the GFCI circuit while blocking high frequency signals. The closest reference for the claim is Muelleman, which discloses some elements of the Claim, such as a device for protecting a ground fault circuit interrupter and filter connected across the power inputs of the GFCI circuit for filtering transient power surges to the surge protector component. However, it does not disclose the low-pass filter formed by the capacitor connected in series with the solenoid coil of the GFCI. That makes all dependent Claims 1 – 3, 7 and 21 – 28 and 30 allowable.

The same limitation is recited over again in the independent Claim 31, thus making Claims 31 – 33 allowable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeev Kitov whose current telephone number is (571) 272 - 2052. The examiner can normally be reached on 8:00 – 4:30. If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272 – 2800, Ext. 36. The fax phone number for organization where this application or proceedings is assigned is (703) 872-9306 for all communications.

Z.K. 02/06/2004

